NAT I Engineering Chemistry

Sr	Questions	Answers Choice
1	Inter molecular forces in solid hydrogen are	A. Covalent forces B. Van der Waal forces or London dispersion force C. Hydrogen bonds D. All of these
2	The structure of XeF_6	A. Distorted octahedral B. Pyramidal C. Tetrahedral D. None of the above
3	The number of atoms contained in 11.2 L of SO_2 at S.T.P are	A. 3/2 x 6.02 x 10²³ B. 2 x 6.02 x 10²³ C. 6.02 x 10²³ D. 4 x 6.02 x 10²³
4	Tollen's reagent is	A. Ammonical cuprous chloride B. Ammonical cuprous oxide C. Ammonical silver bromide D. Ammonical silver nitrate
5	The formula of nitre is	A. KNO₃ B. NaNO₃ C. NaCl D. Na₂CO₃
6	Which of the following has greatest tendency to lose electron?	A. F B. Fr C. S D. Be
7	Which one is the property of an ideal solvent	A. Should be expensive B. It should react chemically with the solute C. Impurities should crystallize along with the solute D. Should be safe to use
8	Ammonia gas used directly as a fertilizer is injected into the soil at a depth of about	A. Two inches B. Three inches C. Five inches D. Six inches
9	When sulphur is boiled with Na_2SO_3 solution the compound formed is	A. Sodium sulphides B. Sodium sulphates C. Sodium persulphate D. Sodium thiosulphate
10	In a crystal $a \neq b \neq c$, $a = \gamma = 90°$ and $\beta \neq 90°$, it is	A. Monoclinic B. Rhombic C. Trigonal D. Tetragonal
11	Bromine is obtained on a commercial scale from	A. Caliche B. Carnallite C. Common satl D. Cryolite
		A. Covalent bond

12	Hydrogen chloride molecule contains	B. Double bond C. Co-ordinate bond D. Electrovalent bond
13	The formula of calcium cyanamide is	A. Ca(CN)₂ B. CaC₂N C. CaNCN D. CaCHNH₂
14	Which of the following process is used to separate insoluble particles from liquids?	A. Separation B. Filtration C. Crystallization D. Condensation
15	The relative rate of diffusion of a gas (molecular wright - 128) as compared to oxygen is	A. 2 times B. 1/4 C. 1/8 D. 1/2
16	Which one is not usually used for the crystallization	A. Acetone B. Acetic acid C. Sulphuric acid D. Chloroform
17	The maximum number of electrons in a subshell for which / = 3 is	A. 14 B. 10 C. 8 D. 4
18	How many moles of Helium gas occupy 22.4 L at $0^{o}C$ at 1 atm.Pressure?	A. 0.11 B. 0.90 C. 1.0 D. 1.11
19	The essential component of organic compound is	A. O B. C C. P D. N
20	The wire in the flash bulbs is made up of	A. Mg B. Ba C. Cu D. Ag